

ROOF MATE

THE ROOF PRESERVATION SYSTEM

General Application Instructions

SURFACE PREPARATION

All surfaces must be clean and dry, and free of any dirt, dust, oil, loose rust or gravel, surface chemicals, or other contaminants that may interfere with optimum adhesion. Any unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be repaired or replaced. Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to existing drains. Excessive ponding is defined as any area that holds in excess of ½" (13 mm) of water as measured 24 hours after a rainfall.

Surfaces that are contaminated with oil, grease, embedded dirt, loose paint or coating, etc. shall be cleaned using **United Cleaning Concentrate (UCC)**, a biodegradable chemical cleaner, and water. High pressure power washing and/or mechanical scrubbers may be necessary to remove tightly adhering contaminants. Rinse thoroughly to remove all traces of the **UCC** cleaner. If roof does not require chemical cleaning, thoroughly sweep, vacuum, or blow down roof to remove any dirt, dust or other loose contaminants.

COATING APPLICATION

Prior to applying **ROOF MATE** to the roof surface, all detail work on seams, splits, protrusions, drains, flashings, fasteners, etc. utilizing **Roof Mate Butter Grade, Uni-Tape, Roof Mate Mesh, Roof Mate Fabric** and/or **Uni-Caps** shall have been completed. Any primers, if necessary, shall also have been applied and allowed to dry.

Airless spray is the preferred method of application for **ROOF MATE**. A medium to heavy nap roller may be used for application over flat substrates. Brush or roller may be use for touch-up or detail work or for small areas that are not practical for spray application.

ROOF MATE must be applied in a minimum of two separate coats to ensure proper coverage and cure rate, and a pinhole free continuous film. Each coat of **ROOF MATE** shall be applied in a direction perpendicular to the previous coat, except when coating metal roof panels.

Each coat of **ROOF MATE** shall be applied parallel to the vertical ribs on metal roof panels, taking care to coat both sides of each rib. Edges of the roof shall be precoated in a "picture frame" fashion.

All surfaces must be uniformly coated and free from voids, pinholes and blisters. Adequate curing of detail work must take place prior to applying **ROOF MATE** basecoat. Subsequent coats of **ROOF MATE** shall be applied only after allowing adequate cure time for the preceding coat(s). Initial cure or dry time to achieve resistance to rain or overnight dew will normally require several hours. Total cure to achieve long term resistance to ponded water will usually take 24 to 48 hours depending on weather conditions.

If any form of dirt, sand or pollution fallout is detected on the surface of **ROOF MATE**, it is necessary to remove this material before applying additional coats. Surfaces should be blown off, swept or rinsed to remove contamination only after the **ROOF MATE** film has fully cured.

ROOF MATE shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (7.5 cm) above the substrate, creating a self terminating flashing. Extend coating up and under all counter-flashings, where utilized.

When **ROOF MATE** White is specified for the finish color, it is recommended that Gray be applied for the first coat, thus making it easier to visually control the application of the second coat in White. For three (3) coat work, it is recommended that Gray be applied as the first and second coats as there is a visual color difference between the wet and dry films.

COATING APPLICATION (Cont.)

To obtain a more rapid congealing of the White topcoat at temperatures between 50°F and 70°F (10°C and 21°C), **ROOF MATE QS (Quick Set)** is available. The quicker gel time of the **ROOF MATE QS** allows the film to resist a light rainfall or heavy dew in less time than standard **ROOF MATE**. Over asphaltic substrates, **ROOF MATE LP** will provide increased adhesion in both dry or ponded water conditions.

Film thickness may be measured using a wet film thickness gauge. This is easily accomplished on smooth surfaces. For textured surfaces, a smooth board is placed on the surface of the roof. **ROOF MATE** is sprayed with multi-directional spray passes on this smooth board, at the same application rate being used on the roof, and measured with the wet mil thickness gauge in order for the applicator to determine the number of passes required to achieve the specified dry mil thickness.

As work proceeds, the applicator must periodically check the number of gallons used compared to size of area coated. If adequate material has not been used according to UNITED'S Warranty requirements or project specifications, adjust accordingly and apply additional material to previously coated area(s).

In hot temperatures, partially full containers of **ROOF MATE** may surface-skin. Examine before mixing and remove skin (if present). To prevent skinning in hot weather, during application or in partially full containers, cover container with polyethylene sheeting **after** mixing.

ROOF MATE, properly mixed, is easily pumped and sprayed at temperatures of 60°F (16°C) or greater. Thinning or reducing the mixture is not recommended. Addition of water reduces the rich thixotropic nature of **ROOF MATE** and decreases its ability to achieve a heavy film build with excellent vertical hold.

The sprayability of **ROOF MATE** will depend on the combination of proper equipment and temperature of the coating at time of application. **ROOF MATE** in the container is very cohesive and difficult to spray at material temperatures below 60°F (16°C).

ROOF MATE has excellent dirt releasing ability. Its tight, smooth, low sheen surface resists penetration of soil and contamination, allowing the surface to be readily cleaned.

ROOF MATE may be applied to a wide range of clean, dry and structurally sound substrates. Slope for positive drainage is recommended for any roofing application. It is the responsibility of the applicator to ensure that the roof is sound and sloped properly, and that expansion joints, vents and flashings have been installed as specified or required. **ROOF MATE** applied at the rate of 1 gallon per 100 sq. ft. (.4 l/m²) will theoretically yield 8.8 dry mils (224 dry microns).

Use water and **UCC Cleaner** to thoroughly flush equipment. Purge the water from the system using Mineral Spirits or Cellosolve Solvent. Leave the solvent in the lines and equipment until next use. It is not recommended practice to leave **ROOF MATE** in the pump or hoses.

SPRAY EQUIPMENT

Airless spray equipment is best suited for field applications. The following minimums are recommended:

PUMP: 1 gallon per minute (3.8 l/minute) output and 2,000 psi (13,790 kPa) pressure capability.

GUN: Any airless hand gun compatible with pump used.

SCREEN SIZE: Filter screens should be 30 mesh or larger.

TIP SIZE: A reversible self-cleaning tip with orifice size .027" to .039" (.69 to .99 mm) with a fan angle of 40° or 50°.

ADDITIONAL APPLICATIONS

ROOF MATE can be utilized over most sound, previously coated surfaces. Existing coating must be clean and dry. A test area should always be applied to confirm adhesion. Occasionally a primer will enhance adhesion in marginal situations.

On sound roofing applications requiring only a white topcoat, strictly for reflectivity, **ROOF MATE** may be applied at a coverage rate less than that required for the complete waterproofing system. On smooth substrates, one coat applied at approximately 1 to 1.5 gallons per 100 sq. ft. (4 to .6 l/m²) is normally adequate. Material requirements will increase with increased surface texture, with the possibility of second coat being required over heavily textured surfaces. It is not normally required to utilize caulk and/or reinforcing fabric with this type of application.

ROOF MATE is effective for extending the life of a wide range of roofing substrates by providing a highly reflective, weatherproof membrane. Consult individual Master Guide Specifications for specific guidelines on each substrate.

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